

FIG. 1

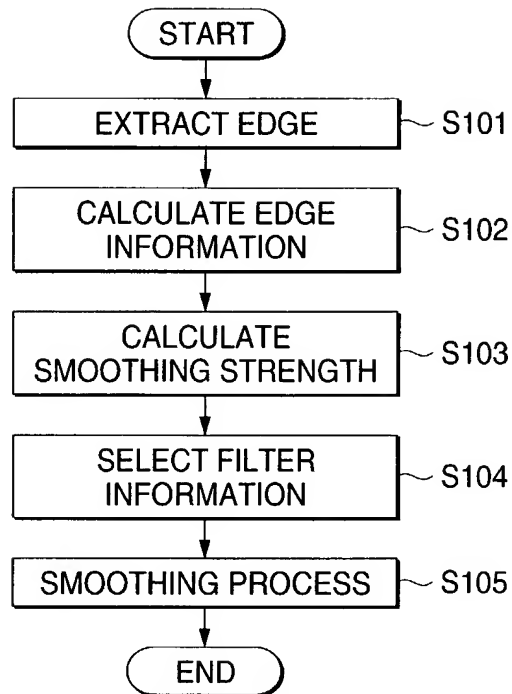


FIG. 2

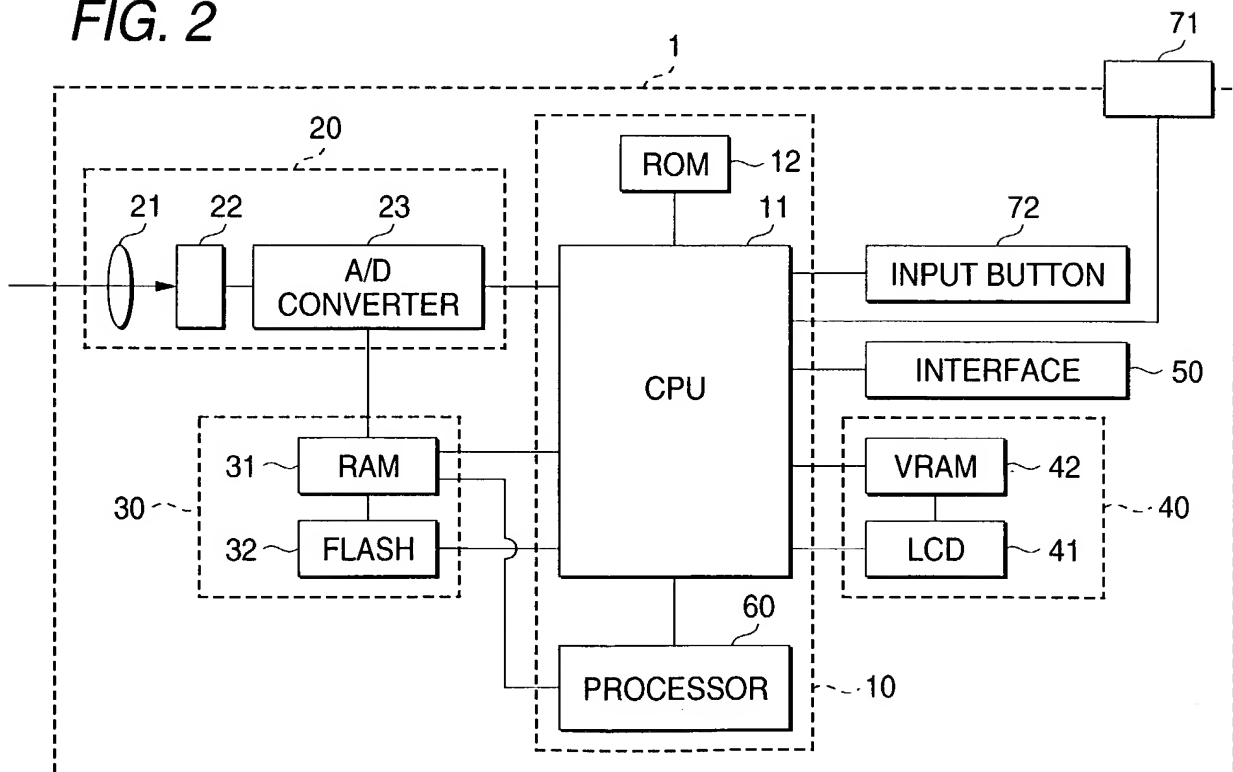
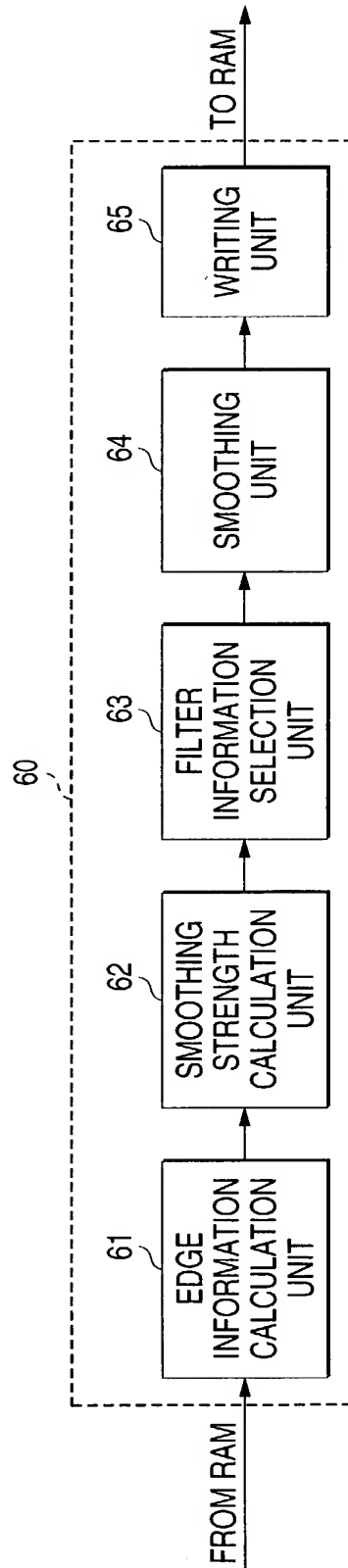


FIG. 3



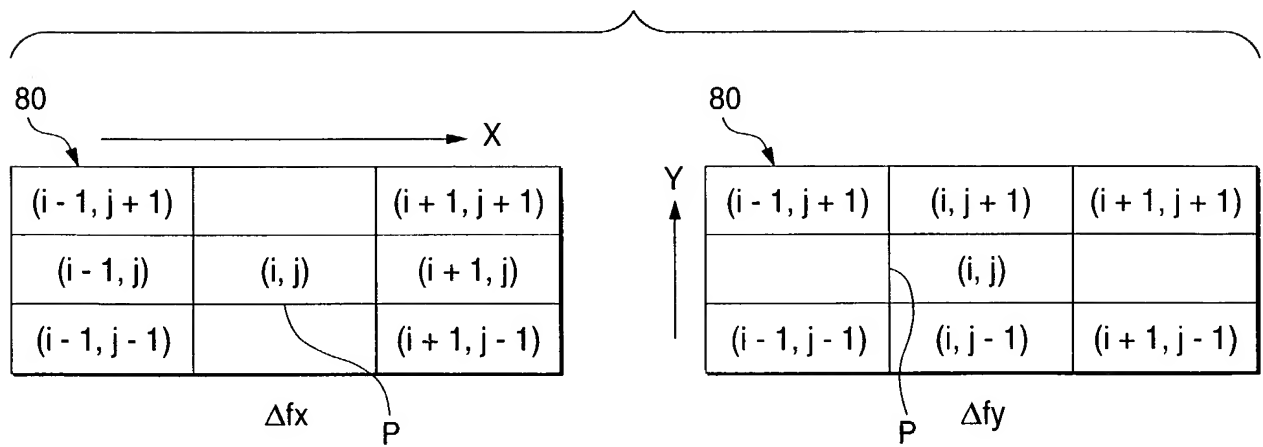


FIG. 6

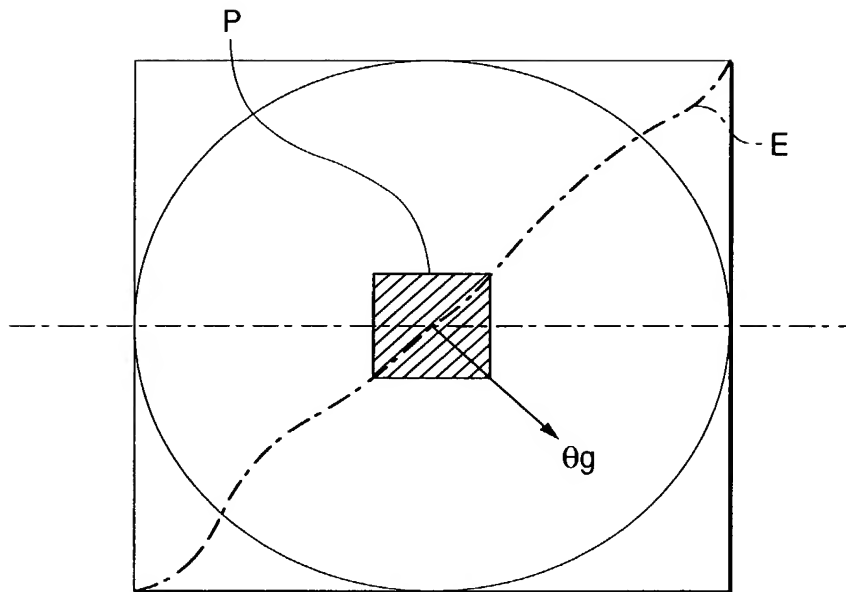
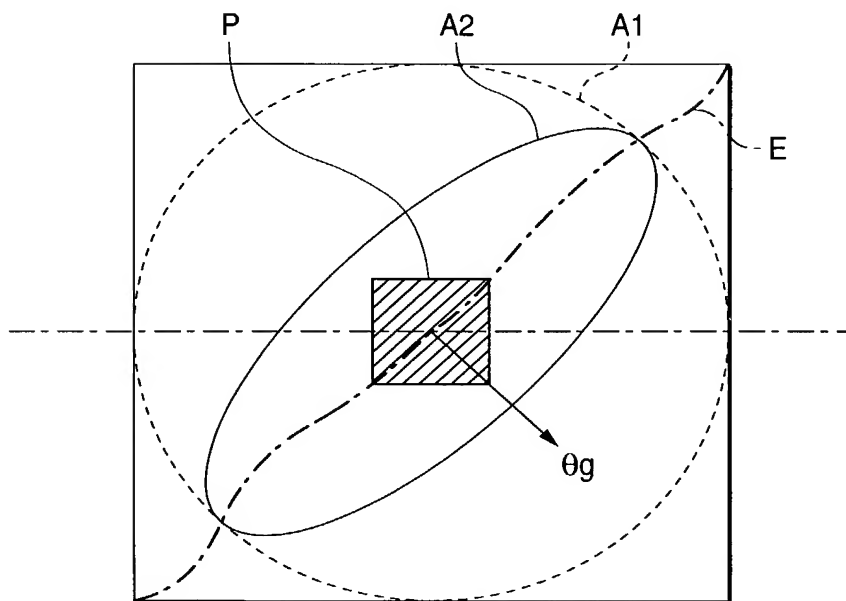


FIG. 7



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FIG. 8

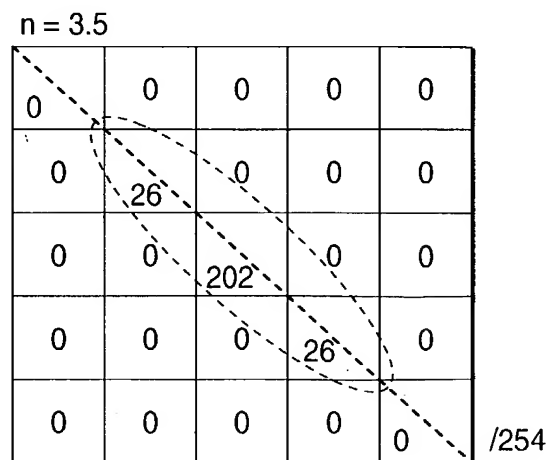
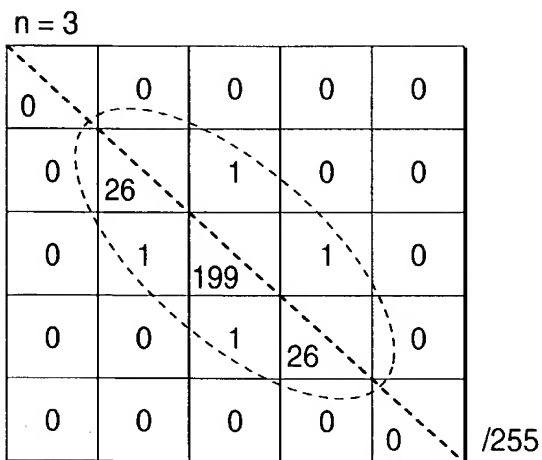
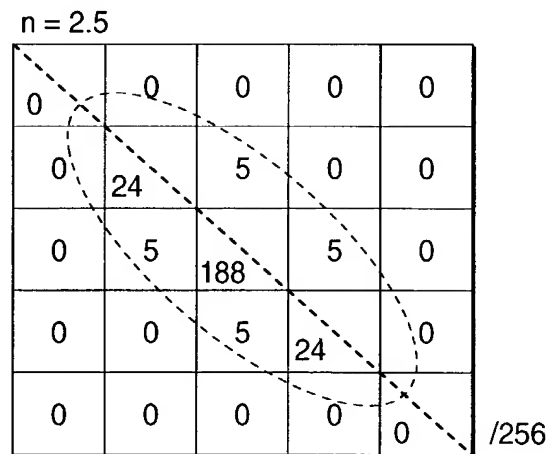
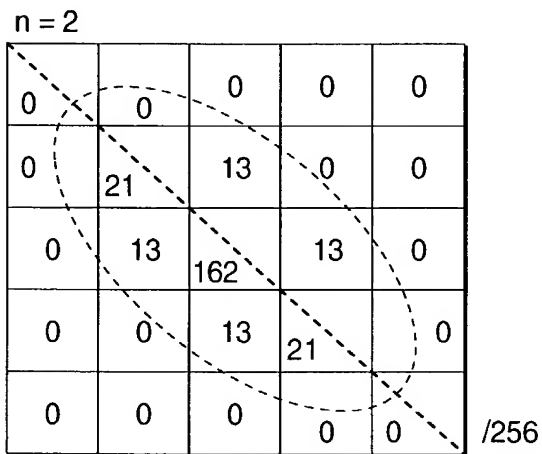
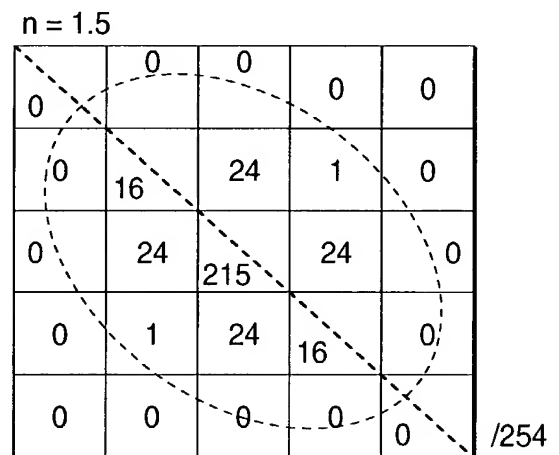
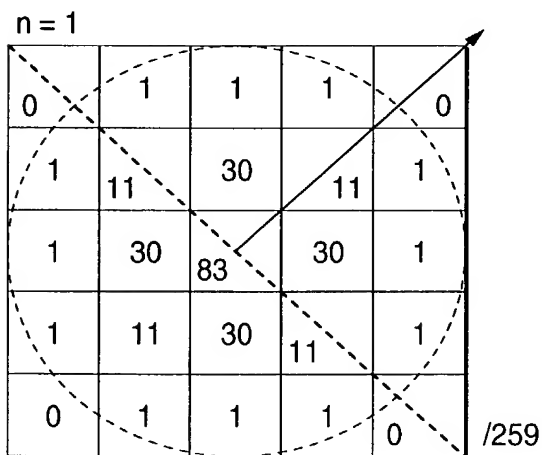
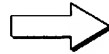


FIG. 9

$\sigma = 0.5, n = 1, m = 1, \theta g = 45^\circ$

0	0	0	0	0
0	3	21	3	0
0	21	158	21	0
0	3	21	3	0
0	0	0	0	0

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$\sigma = 0.5, n = 3, m = 1, \theta g = 45^\circ$

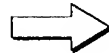
0	0	0	0	0
0	5	0	0	0
0	0	247	0	0
0	0	0	5	0
0	0	0	0	0

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$\sigma = 0.7, n = 1, m = 1, \theta g = 45^\circ$

0	1	1	1	0
1	11	30	11	1
1	30	83	30	1
1	11	30	11	1
0	1	1	1	0

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$\sigma = 0.7, n = 3, m = 1, \theta g = 45^\circ$

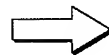
0	0	0	0	0
0	26	1	0	0
0	1	199	1	0
0	0	1	26	0
0	0	0	0	0

/255

$\sigma = 0.8, n = 1, m = 1, \theta g = 45^\circ$

0	1	3	1	0
1	13	29	13	1
3	29	64	29	3
1	13	29	13	1
0	1	3	1	0

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$\sigma = 0.8, n = 3.5, m = 1, \theta g = 45^\circ$

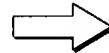
0	0	0	0	0
0	37	1	0	0
0	1	177	1	0
0	0	1	37	0
0	0	0	0	0

/255

$\sigma = 0.9, n = 1, m = 1, \theta g = 45^\circ$

0	2	4	2	0
2	15	27	15	2
4	27	51	27	4
2	15	27	15	2
0	2	4	2	0

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$\sigma = 0.9, n = 4, m = 1.25, \theta g = 45^\circ$

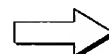
0	0	0	0	0
0	28	1	0	0
0	1	195	1	0
0	0	1	28	0
0	0	0	0	0

/255

$\sigma = 1.0, n = 1, m = 1, \theta g = 45^\circ$

1	3	6	3	1
3	15	25	15	3
6	25	41	25	6
3	15	25	15	3
1	3	6	3	1

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$\sigma = 1.0, n = 4.5, m = 1.5, \theta g = 45^\circ$

0	0	0	0	0
0	22	1	0	0
0	1	209	1	0
0	0	1	22	0
0	0	0	0	0

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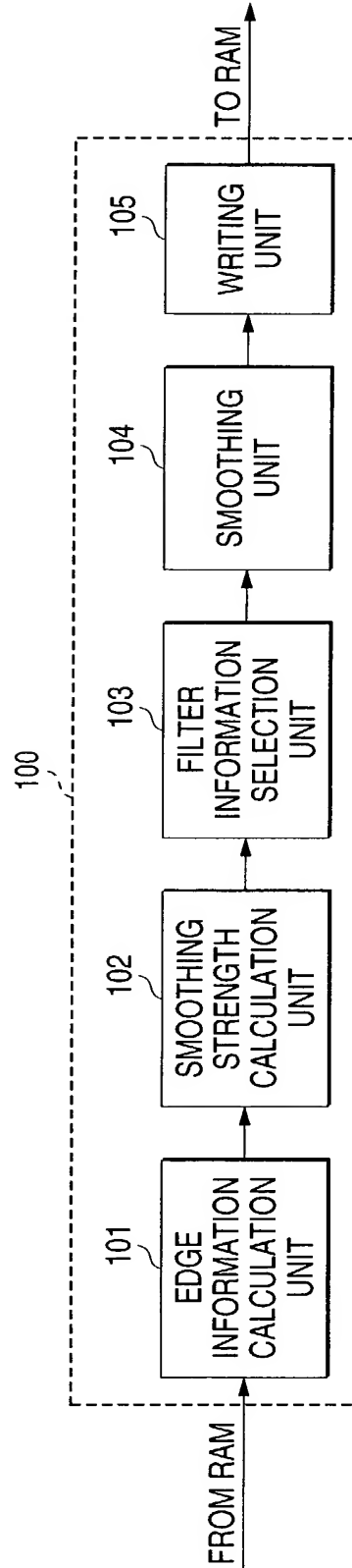
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FIG. 10

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0	0	0	0	0
0	28	1	0	0
0	1	195	1	0
0	0	1	28	0
0	0	0	0	0

FIG. 11




```
graph TD; START([START]) --> S201[EXTRACT EDGE]; S201 --> S202[CALCULATE EDGE INFORMATION]; S202 --> S203[CALCULATE SMOOTHING STRENGTH]; S203 --> S204[GENERATE FILTER INFORMATION]; S204 --> S205[SMOOTHING PROCESS]; S205 --> END([END]);
```

The flowchart illustrates the edge smoothing process. It begins with a 'START' terminal, followed by a sequence of five steps: 'EXTRACT EDGE' (S201), 'CALCULATE EDGE INFORMATION' (S202), 'CALCULATE SMOOTHING STRENGTH' (S203), 'GENERATE FILTER INFORMATION' (S204), and 'SMOOTHING PROCESS' (S205). The process concludes at an 'END' terminal.